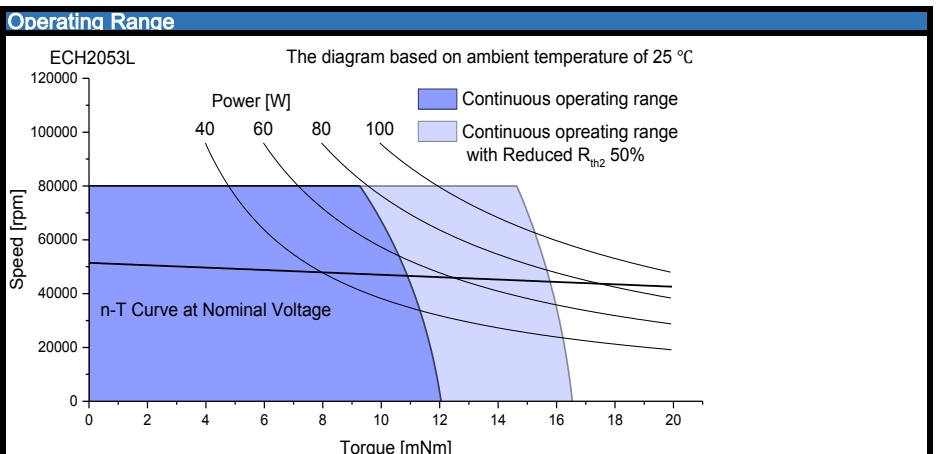


⊕ M 1.5:1

Sensorless	EC2053L-...	1850	2450	3650	4850					
<b>Values at nominal voltage</b>										
1	Nominal voltage	V	18	24	36	48				
2	No load speed	rpm	50202	50832	51448	50700				
3	No load current	mA	136	107	81	68				
4	Nominal speed	rpm	45684	46379	46936	46188				
5	Nominal torque	mNm	10	10	10	10				
6	Nominal current	A	3,07	2,33	1,58	1,18				
7	Stall torque	mNm	111	114	114	112				
8	Stall current	A	32,7	25,5	17,2	12,6				
9	Max. efficiency	%	87,5	87,5	86,8	85,8				

10	Terminal resistance	Ω	0,55	0,94	2,09	3,82				
11	Terminal inductance	mH	0,06	0,1	0,23	0,38				
12	Torque constant	mNm/A	3,41	4,49	6,65	8,99				
13	Speed constant	rpm/V	2801	2127	1436	1062				
14	Speed/torque gradient	rpm/mNm	452	445	451	451				
15	Mechanical time constant	ms	3,9	3,9	3,9	3,92				
16	Rotor inertia	gcm <sup>2</sup>	0,8	0,8	0,8	0,83				

17	Thermal resistance housing-ambient	11.8 K/W
18	Thermal resistance winding-housing	0.8 K/W
19	Thermal time constant winding	2 s
20	Thermal time constant motor	386 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	80000 rpm
24	Axial play at axial load	<3 N: 0 mm >3 N: max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	2.5 N
27	Max. force for press fits (static)	44 N (static, shaft supported)
28	Max. radial loading, 5mm from flange	11 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	63 g



Connection	
<b>Connection</b>	specical connector please contact sales engineer

Confiuration	
Performance:	Customized in the continuous operating range
Ball bearing:	Preload
Flange:	Standard frange front&back/customize the frange
Shaft:	Length/Diameter/Cut face/double shaft/hollow shaft